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CARR'S SYNOPSIS.*

To any one interested in mathematics it is valuable not only to possess as many works as possible, each of which is a standard authority on a single subject, but also at least one work which can be referred to because it contains something on nearly every subject. Such a work may be in the form of an encyclopedia arranged alphabetically, or of a compendium arranged topically. Of the latter class *Carr's Synopsis* is an excellent example.

No general epitome of results can, of course, reach that perfection of detail which can be given to a treatise on a single subject, and such perfection is not expected. It is only surprising that Mr. Carr has succeeded in this respect so well.

The book is called a synopsis of elementary results, but it is more than that. Besides chapters on subjects which every one would call elementary, there are pretty full treatises on Differential and Integral Calculus, Calculus of Variations, Differential Equations, Calculus of Finite Differences, and Analytical Conics in Trilinear Co-ordinates. Even the portions devoted to so-called elementary subjects contain much more than the merely fundamental principles.

There are in all nearly one thousand octavo pages, containing more than six thousand separate propositions; but this gives no just estimate of what the work contains, so carefully has the author condensed it in every part.

The topics are carefully arranged and each proposition is numbered, the more important portions being printed in larger type than the remainder. The arrangement, the numbering, and the beautifully clear and heavy type in which the more important portions are printed, added to the detailed tables of contents at the beginning and the equally detailed index at the end make it a work of only a moment to turn to any desired subject.

Besides numerous geometrical figures in the body of the work, twenty plates, containing nearly two hundred figures, are added at the end.

A welcome feature of the index is the index which is joined with it, of the papers on pure mathematics which have appeared during the present century in thirty-two of the leading journals and series of society transactions.

*A SYNOPSIS OF ELEMENTARY RESULTS IN PURE MATHEMATICS. By G. S. Carr. London: Francis Hodgson.